

plenu Z²

DIGITAL PRIDE.
COWON

“Floating Design”

The straight line and dynamic curves of Z2 are slim, yet provide an easy grip to its users.

With an exterior body consisting of only one piece, unnecessary parts removed, the unibody construction boldly expresses extreme simplicity.

Users can expand the capacity with a MicroSD card and enjoy high quality video up to 1080p Full HD on the AMOLED display. The USB cover of Z2 protects the USB ports and also holds Z2 on a right angle for watching videos.

The simple yet emotional curves and hidden functions are the unique features of COWON Z2.

Designed by COWON



User's Guide ver. 1.0 EN



Product specification may change without notice.

Due to the difference of Android compatibility, certain applications may not be installed and executed properly.

+ Copyright Notice

Thank you for purchasing a COWON product.

We do our utmost to deliver DIGITAL PRIDE to our customers.

This manual contains information on how to use the product and the precautions to take during use. If you familiarize yourself with this manual, you will have a more enjoyable digital experience.

Introduction to website

- + The address of the product-related website is <http://www.COWON.com>.
- + You can download the latest information on our products and the most recent firmware updates from our website.
- + For first-time users, we provide an FAQ section and a user guide.
- + Become a member of the website by using the serial number on the back of the product to register the product. You will then be a registered member.
- + Once you become a registered member, you can use the one-to-one enquiry service to receive online customer advice. You can also receive information on new products and events by e-mail.

+ Copyright Notice

General

- + COWON is a registered trademark of COWON SYSTEMS, Inc.
- + COWON SYSTEMS, Inc. owns the copyright to this manual, and any unauthorized distribution of its contents, whether in part or in its entirety, is strictly prohibited.
- + COWON SYSTEMS, Inc. complies with laws and regulations related to records, disks, videos and games. Users are also encouraged to comply with the relevant laws and regulations.
- + As soon as you purchase the product, visit the website (<http://www.COWON.com>), and become a registered member. You will benefit from various member services.
- + This manual is based on product specifications, and various exemplary texts, illustrations, pictures, detailed functions and H/W and S/W specifications contained herein can be altered without any prior notice by the copyright owner.

BBE information

- + BBE Sound, Inc. owns the license to the BBE name and information as applied to this product, in compliance with USP4638258, 5510752 and 5736897.
- + BBE and the BBE symbol are registered trademarks of BBE Sound Inc.

DIGITAL PRIDE.

COWON

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Before You Start!

+ Precaution

As these precautions are provided for the correct use of the product as well as user safety, be sure to familiarize yourself with them. The company will not be held responsible for any accident that may occur due to the failure to heed these precautions. The following information applies commonly to all products manufactured and produced by COWON SYSTEMS, Inc.

- + Do not use this product for other purposes than those described in this manual.
- + Handle the manual, product packaging materials, accessories, etc. with care to prevent cuts and injuries to your body.
- + For your safety, do not view videos, pictures and texts stored on your player while driving a vehicle. Operating other features of the player is also dangerous and may cause fatal accidents while driving.
- + The wearing of earphones while operating a vehicle, exercising, or walking may impair driving, mask or prevent recognition of emergency signals, alarms, announcements, the approach of vehicles and human speech. Doing so may also be unlawful depending on the region.
- + Listening at high volume (85 dB and above) for an extended period of time may harm your hearing.
- + For your protection, use the player in a well lit area where the LCD screen will not cause strain to your eyes.
- + Do not attempt to disassemble the player. Disassembly will void the warranty and the unit will be permanently disqualified from any warranty services.
- + Be sure to use only the USB power adaptor and USB cable approved by COWON SYSTEMS, Inc.
- + When connecting to a PC, use only USB ports on the mother board or a USB Host card. Using an external USB hub may not guarantee proper operation (e.g. USB ports on a keyboard or an external USB hub).
- + Do not mix directions when connecting USB cables or AC adaptors to your player or PC. Connecting USB cables incorrectly may damage your player or PC. Also, do not bend or press connection cables with heavy objects.
- + Take extra care not to apply external shock or pressure when using products with displays (LCD, AMOLED, or Touch Screen) or Hard Disk Drive. Warranty may be voided if damage occurs due to the aforementioned circumstances.
- + Do not drop or expose the product to hard impact. This may result in malfunctions and/or unit failure, voiding the warranty.
- + If you smell something burning or feel excessive heat while using the product, press the RESET button to stop operation and contact the place of purchase.
- + If you find any abnormalities with the battery such as swelling, press the RESET button immediately to stop the operation and contact the place of purchase.
- + Do not expose the player to water or keep it in a damp or humid location for an extended period of time. If the player is damaged from moisture as described above, product failure is then classified as a user's misuse.

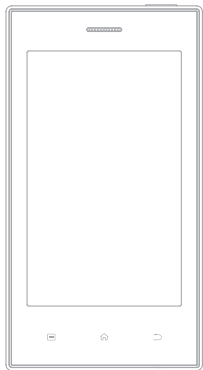
Before You Start!

+ Precaution

- + Touching the player with wet hands may cause damages and malfunctions.
- + Using the player in places with high occurrences of static electricity may cause malfunctions.
- + Keep the player away from magnets and direct magnetic fields, as they can cause malfunctions.
- + Be sure to disconnect the power supply to the PC and USB power adaptor during lightning or thunder storm, to prevent danger to the user and/or the risk of fire hazards.
- + Maintain the device within the temperatures specified below in order to prevent fatal damages to your player. Operating temperature : 0°C ~ 40°C
Storage temperature : -10°C ~ 50°C
- + Keep the player in cool and ventilated places, away from direct sunlight as it may cause deformation and damages to internal circuitry or LCD screen.
- + Do not use detergent or other chemicals on the product surface as it may cause fading. If necessary, wipe the polluted area carefully with a soft cloth.
- + In case of using this device primarily for a storage device, it is recommended to back up all data before use. COWON SYSTEMS Inc. is not responsible for any data loss due to hardware failure.
- + All data stored in the player may become deleted when the player is serviced. Our Service Center does not backup files while repairing players. Please note that COWON SYSTEMS, Inc. is not responsible for any data loss from products entrusted to us for service.
- + The price of the product may fluctuate due to unexpected commercial conditions. COWON SYSTEMS, Inc. accepts no liability to compensate for any price fluctuation.
- + Be careful not to be torn or ruptured by any sharp materials, such as animals' teeth.
- + When formatting the removable disk, be sure to use only the specified file system written in this manual.

Before You Start!

+ Package Components



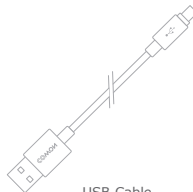
COWON Z2



Earphones



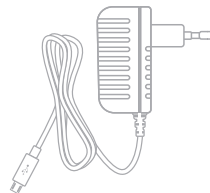
Quick Guide



USB Cable



HDMI Cable
(Optional)

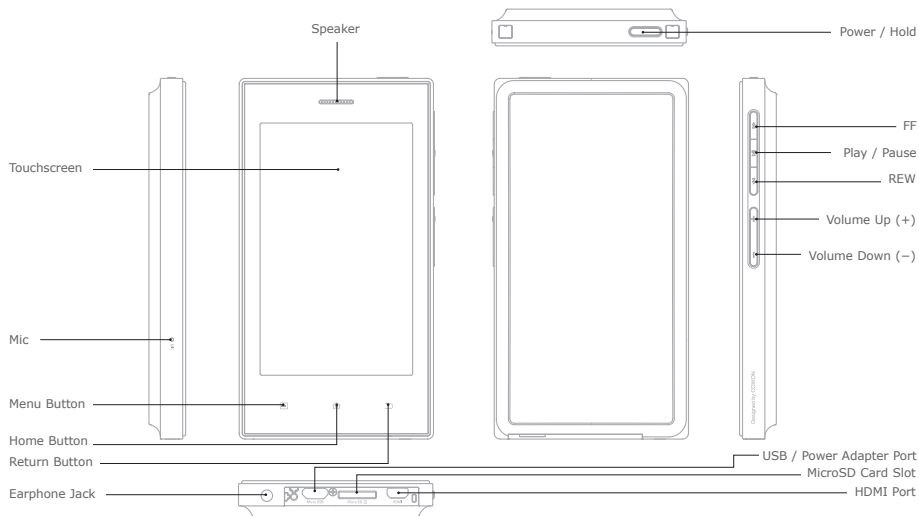


AC Adaptor

* Actual package contents may differ from the above images.

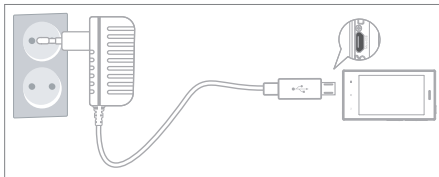
Before You Start!

+ Names of Parts and Functions



Before You Start!

+ Charging



- Fully charge the device with the power adapter before using it for the first time or if it has not been used for a long time.

- Z2 may not be automatically turned on despite being plugged into the power adapter if the battery has been completely discharged. If that is the case, press the Power/Hold button for longer than 5 seconds to turn on the device.
- Battery power may be used if Z2 is plugged into a USB hub or if another device is consuming too much power. Always use the genuine power adapter to charge Z2.

+ Buttons

1. Power on/off : Press and hold the Power/Hold button
 2. Hold on/off : Briefly press the Power/Hold button while the device is turned on
 - The touchscreen is locked in hold status.
 - Locking the touchscreen with the hold button can prevent any unwanted operations usually caused by unintentional inputs.
 3. Press the Power/Hold button again 2 seconds after Z2 enters Hold mode to begin Sleep mode.
 - In Music, Radio menu: Display off
 - In other menus: Sleep mode
- * It is generally recommended for Android device users to use sleep mode to boot faster, and the battery consumption can also be minimized in sleep mode.

Smart RESET

Press and hold the Power/Hold button for at least 5 seconds to reset if there is an error in operation or if Z2 is not responding.

Before You Start!

+ Connecting and Disconnecting the PC

1. Connect Z2 to a PC with USB cable.
2. Tap 'Turn on USB storage' to allow your computer to recognize Z2 as a portable disk.
3. Copy the multimedia files from your computer to Z2.
4. After completing it, click the  icon on the system tray.
5. When the following pop-up message shows up, conduct 'safely remove the hardware' process by clicking it.



6. Tap 'Turn off USB storage' to disconnect Z2 from your computer.

- Always tap 'Turn off USB storage' before disconnecting the device.
- Make sure the flash memory has enough free space to maintain the proper system operation.

+ Firmware Upgrade

Firmware is the software that is embedded within the hardware. Upgrading it can enhance system stability and provide additional features.

Please be advised that Beta (unofficial) firmware versions may cause system malfunction.

- Fully charge Z2 before proceeding with any firmware upgrade.
- Do not turn the player off before the firmware update has been completed. It may damage the product, and will void any warranty.
- Back up any important data before the firmware upgrade as any data stored on the device may be deleted during the process. COWON accepts no liability for any loss of data.

Before You Start!

+ Firmware Upgrade

How to upgrade the firmware

1. Download the latest firmware from the SUPPORT section of the website (<http://www.COWON.com>).
 2. Use the USB cable to connect COWON Z2 to the PC.
 3. Copy it to the root folder of COWON Z2.
 4. After copying files to Z2, tap Turn off USB storage to disconnect the device. Connect Z2 to the power adapter and go to Settings ► About Z2 ► System updates. Locate the files on the storage device to proceed with the update.
 5. Upon finishing firmware upgrade, verify the installed firmware version from Settings ► About Z2 ► Firmware version.
- * Firmware upgrade can also be conducted through MicroSD cards by copying firmware files to the root folder of MicroSD and inserting the MicroSD card into COWON Z2.

+ Formatting, Installation and etc.

NAND Memory Formatting

Internal memory can be formatted from settings ► SD Card & Z2 storage ► Unmount internal memory ► Format internal memory

It is recommended to format an internal memory from the device to keep the device in good working order. Be sure to back up all the data on the device since all the files are to be deleted after formatting.

Media Scanning

Copy media files to Z2 and disable the USB connection to begin media scanning. During media scanning the device response can slow down, and depending on the types & capacities of the data it can maximally take dozens of minutes.

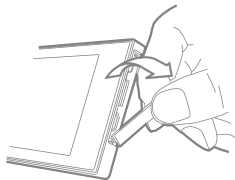
How to install applications

Connect COWON Z2 to the PC and copy APK files to the APK folder of Z2. After disconnecting the USB cable, check the pop-up asking whether to Install or not and touch 'Install'.

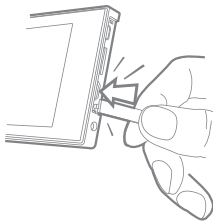
Before You Start!

+ Formatting, Installation and etc.

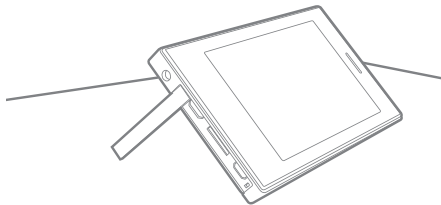
01



02



03



Basic Use

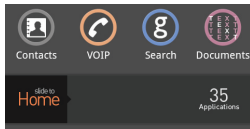
+ Home Screen



Turn on the device and swipe the slide bar to the right, the home screen will show up.



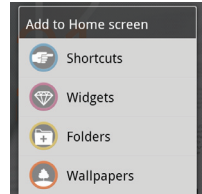
Drag the home screen to switch between screens, and touch or slide 'slide to APPS' to show the applications list.



+ Add & Delete Icons on Home Screen



Applications & widgets can be added to the home screen with a pop-up menu that shows up by long-press on the blank part of the home screen. Also, icons located at APPS can be added to the home screen by long-press on an icon.



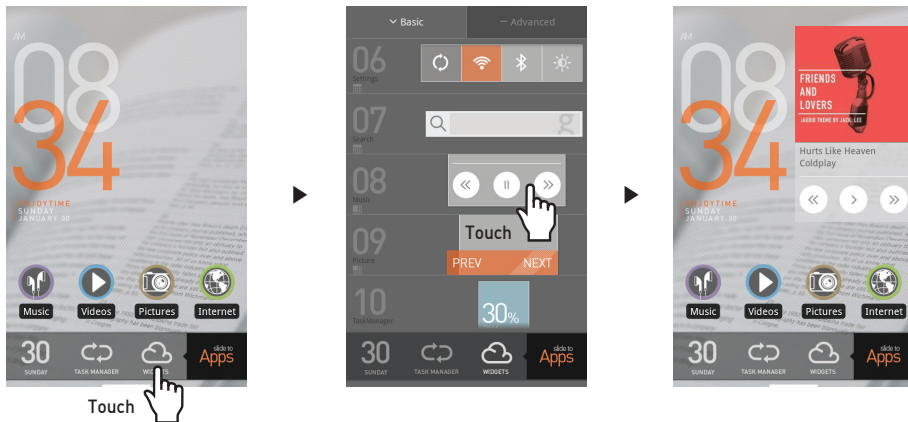
Added icons can be deleted from the home screen by long-press on the icon and drag it to the trash.

* Deleting shortcut icons doesn't result in deleting applications in the application list.

Basic Use

+ Using Widgets

Widgets allow you to conveniently place Z2 features and functions directly on your Home screen.















Tap the Widget menu on the Home screen and choose the mini application you would like to add to your current home screen.

Basic Use + Removing Widgets



Press and hold a widget icon and drag it to the Recycle Bin to remove it from the Home screen.

+ Basic Menu

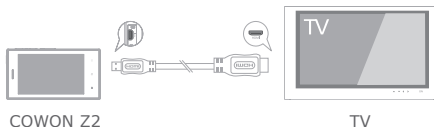
	Music	Enjoy a variety of music formats.
	Videos	Watch various video files up to 1080p Full HD.
	Pictures	Enjoy pictures and sort out favorite pictures by albums.
	Internet	Access internet browser and search webs.
	Calculator	Calculate numbers using the calculator.
	Radio	Listen to FM Radio.
	Mic Recorder	Record using Mic.
	Comix	Enjoy comics & cartoons on the web.
	Documents	Set & read documents at your preference.
	Paint	Draw simple memos and paints.
	Settings	Change settings at user's convenience.
	JetVD	You can view YouTube clips in the resolution of your choice in real-time.

+ Connecting an HDMI Cable

* HDMI cables may be purchased separately.

The COWON Z2 supports high-resolution HDMI output.

1. Connect one end of the HDMI cable to Z2's HDMI port and the other end to the TV.
2. Set the TV's input mode to HDMI.
3. Go to Z2 Settings ► Display ► Output Settings, and click HDMI output.
4. Verify that both audio and video are outputting normally.



+ Recovery Mode

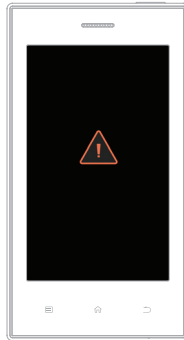
When Z2 shows following severe symptoms, use its recovery mode to restore the device.

- When it fails to conduct system updates.
- When it needs to reinstall a current firmware on the device to solve system errors.

* Recovery Mode can be used to recover the firmware if Z2 ceases to function properly. If an error occurs while using this device, press and hold the Power button for 5 seconds to reset the device.

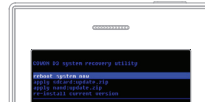
How to use recovery mode

1. Turn on the device while pressing the Play / Pause button.
2. Press and hold the Play/ Pause button to enter Recovery Mode, as shown in the figure to the right.
3. From the step number 2, press the home button and check whether the following 4 menus show



up on the screen.

Use the Volume (+/-) buttons to select the menu and run the selected menu by pressing the Play / Pause button.



1	reboot system now	Finish 'recovery mode' and reboots the device.
2	apply sdcard:update.zip	Start updating with '/sdcard/sd/update.zip' on the SD card.
3	apply nand:update.zip	Start updating with '/sdcard/update.zip' on the NAND.
4	re-install current version	When using 'OTA package', back up update.zip file to the internal storage after completing updates. This menu starts updating by using a previously backed-up file.

* If there's no file while starting the menu number 2, 3, 4, error messages will show up and will not start installation.

4. The device will automatically reboot after the firmware updates described in step 3 are complete. After rebooting, you may begin using the updated firmware.

Additional + Specifications

CPU	1GHz ARM CORTEX-A8 CPU + 800MHz 1080p Full HD VPU + 320MHz Mali 3D GPU		
RAM	512MB		
Display	AMOLED 3.7 Inch (800x480), Capacitive Touchscreen		
Capacity	8GB/16GB/32GB (Flash Memory, NTFS File System) *		
Size & Weight	62.8mm (W) × 116.5mm (H) × 11.8mm (T) / 116g		
Buttons	Home, Menu, Back, Power / Hold, Play / Pause, FF, REW, Vol +, Vol -		
Color	Black / White		
Power	Battery	Built-in Rechargeable Lithium Polymer Battery	
	Playback Time	Music: Max 22 hours / Video: Max 8.5 hours **	
	Battery charging	AC Adapter: 3 Hours	
OS	Android		
ETC	Built-in Speaker, Mic, MicroSD Card Slot, G-Sensor		
Audio	Frequency Range	20Hz~20,000Hz	
	Max Output	Left 29mW + Right 29mW (With 16Ω Earphones)	
	S/N Ratio	95dB	
	File Format	MP3/2/1, WMA, OGG, WAV, ASF, FLAC, APE, M4A	
	Audio Codec	MPEG1 Layer 1/2/3, WMA, OGG Vorbis, PCM, FLAC, Monkey's Audio ***	
	Lyrics	LDB	
	Playback Speed	50% - 200% pitch correction	
	JetEffect 5	48 Presets (44 Presets + 4 User Presets)	
		EQ	5 Band Equalizer (EQ Filter)
		BBE+	BBE, Mach3Bass, 3D Surround, MP Enhance
		Special Effect	Stereo Enhance, Reverb (9 Modes)

Video	File Format	AVI, WMV, ASF, MP4, MKV, MPG, DAT, TS, TP, TRP, 3GP
	Video Codec	DivX, Xvid, H.264, WMV 9/8/7, MPEG1 ****
	Video Resolution	Max 1920x1080 ***
	Audio Codec	MPEG1 Layer 1/2/3, WMA, OGG Vorbis, PCM, FLAC ****
	Color Subtitle	SMI, SMIL, SRT, SUB (Text Form)
	Multi Audio	Playback multiple audio tracks
	Playback Speed	50% - 200% pitch correction
AV Out	HDMI	
	Composite	Format: NTSC / PAL Audio: S/PDIF, Stereo
Photo Viewer	JPG, PNG, GIF, BMP	
Document Viewer	TXT supported (No file size limit)	
FM Radio	Frequency Range	87.5~108 MHz (KR, US, EU), 76~90 MHz (JP)
Recording	Mic / FM Radio	
Bluetooth	Bluetooth 2.1 + EDR, A2DP / AVRCP / OPP *****	
Wireless LAN	Wireless LAN IEEE 802.11 b/g/n *****	
System Requirements	CPU	Pentium III 500MHz or higher
	OS	Windows7 / Vista / XP / 2000 : All functions supported
	USB Port	USB 2.0 High Speed recommended

- * The storage capacity may differ from the actual capacity due to the space used to store system files.
Only FAT32 File System is supported for MicroSD Cards.
- ** Note: Playback time was measured under strict testing conditions and with Wi-Fi and Bluetooth features turned off. The playback time listed above may differ from actual playback time.
- *** Max resolutions may vary depending on codecs, and even with the same codec, the max resolutions can be different according to encoding options.
- **** FM radio does not support Bluetooth. Uncertified Bluetooth headsets, receivers, etc. may not be compatible with the product.
- ***** This function can be used in the areas where Wi-Fi routers enable wireless internet access.

+ Troubleshooting

+ I am still confused even after reading the manual.

COWON website (www.COWON.com) provides support for users of COWON products with FAQ (Frequently Asked Questions).

Users are strongly encouraged to check out the website for further information regarding product usages and firmware upgrades. For individual inquiries, please contact us on-line as we will try to help you as best as we can.

+ The player does not turn on.

Check if the battery is recharged or the device is connected to a power source. If the battery is fully discharged, use a genuine adapter to recharge the battery before turning on the device. If the device does not respond, simultaneously press and hold the Power/Hold button for approximately 5 seconds to force the device to reset.

+ The touch pad and buttons do not work properly.

The device will not respond while the Touchpad Hold option is turned on. Press the Power/Hold button briefly to deactivate Hold mode.

+ I can't hear any sound.

Check if the volume is set to "0". Check if there are any files available in the player. If there is no file in the player, you will not hear any sound. Please note that corrupted files will result in a noise or discontinued playback. Make sure the earphones are connected properly. Impurities in the earphone jack can cause a noise.

+ I can't see a file saved on the device.

Ensure that the format of the file is supported by the device. Non-supported file formats do not appear in their respective modes. On the rare occasion that a file has been missed during automatic scanning or due to a database problem, go to Settings ► Privacy ► Start media scan/Media database update to manually scan for the file.

+ I can't play video files.

Ensure that the format of the file is supported by Z2 (e.g., codec/resolution/option). If you're unsure whether the file format is supported, we recommend using a file conversion program (e.g.:JetAudio) to convert it before use.

+ Troubleshooting

+ **FM Radio does not work.**

The product's earphones work as the FM Radio antenna. Straightening the earphone cable will result in better radio reception. FM Radio reception may be poor at locations where FM Radio transmissions are shielded. If FM Radio does not work where reception should be possible, please contact our service center.

+ **There is too much noise in my recordings.**

The product uses ultra-small internal microphone, so it may be more susceptible to noise during recordings. The microphone should not be covered with anything during recording.

+ **Computer cannot recognize the player when connected.**

If you cannot turn on the device or the device is not recognized by the PC after connecting the device, unplug the device from the PC and reset it by simultaneously holding the Power button for approximately 5 seconds. If the connection is unstable and the device is repeatedly disconnected, plug the device into a USB port connected directly to the motherboard of the PC. If the PC does not recognize COWON Z2 because the device is out of battery power, either recharge the device or connect it to a power source before reconnecting to the PC.

+ **Memory capacity of the player is different or smaller than specified.**

The memory capacity indicated by Windows may be different from that indicated by the memory manufacturer. The actual capacity will be reduced from the original size because some space of the memory should be used as the system area for normal operation.

+ **The player does not play properly when memory is full.**

For the player to function properly, it requires at least 5 MB of space for saving settings and other system files.

+ FCC Information to User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance Information:

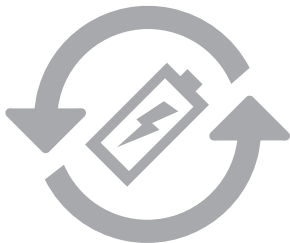
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE: FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

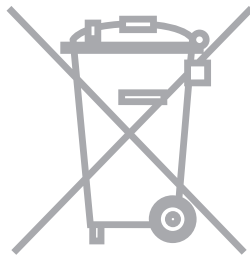
+ Battery Replacement



The rechargeable batteries have limited number of charge cycles, and it will require a replacement as capacity to hold power will eventually diminish.

The rechargeable batteries in COWON products should be replaced only by official COWON service centers. Please contact batteryreplace@cowon.com for more information on official COWON service centers.

+ Product Disposal



COWON products contain built-in rechargeable batteries, and must be separately disposed from household waste.

Disposing the products with regular waste may cause pollution to the environment due to the waste batteries inside. Contact your local authorities for specified locations / guidance of E-waste and waste batteries, and dispose them in compliance with local regulation / guidance.

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